

**IN THE CLAIMS:**

Claim 34 is canceled, claims 43 and 46 are amended and new claim 47 is presented herein. All amendments and cancellations are made without prejudice or disclaimer and applicant may pursue such claims in related applications. Claims 41, 42 and 44 were previously canceled. Please note that all claims currently pending and under consideration in the referenced application are shown below. Upon entry, this listing of claims will replace all prior versions and listings of claims in the application.

**Listing of Claims:**

1. (Withdrawn) An isolated DNA sequence encoding a polypeptide or fragment thereof, involved in the biosynthetic pathway for aliphatic and/or aromatic ester production in fruit, said polypeptide comprising:

an amino acid sequence selected from the group consisting of SEQ ID NO: 6, SEQ ID NO: 14, SEQ ID NO: 27, SEQ ID NO: 28, SEQ ID NO: 29, SEQ ID NO: 30, an amino acid sequence having at least 30% homology with SEQ ID NO: 6, amino acid sequence having at least 40% homology with SEQ ID NO: 14, an amino acid sequence having at least 80% homology with SEQ ID NO: 27, an amino acid sequence having at least 90% homology with SEQ ID NO: 28, an amino acid sequence having at least 90% homology SEQ ID NO: 29, an amino acid sequence having at least 75% homology with SEQ ID NO: 30, and a fragment of any thereof, said polypeptide or fragment thereof, being involved in the biosynthetic pathway for aliphatic and/or aromatic ester production in fruit.

2. (Withdrawn) The isolated DNA sequence encoding a polypeptide or fragment thereof, of claim 1, wherein said amino acid sequence comprises at least 50% homology with SEQ ID NO: 6, SEQ ID NO: 14 or a fragment of either thereof.

3. (Withdrawn) The isolated DNA sequence encoding a polypeptide or fragment thereof, of claim 1, wherein said amino acid sequence comprises at least 70% homology with SEQ ID NO: 6, SEQ ID NO: 14 or a fragment of either thereof.

4. (Withdrawn) The isolated DNA sequence encoding a polypeptide, of claim 2, wherein said polypeptide or fragment thereof, has alcohol acyl transferase activity.

5. (Withdrawn) The isolated DNA sequence encoding a polypeptide, of claim 1, wherein said polypeptide or fragment thereof comprises SEQ ID NO: 27 and has aminotransferase activity.

6. (Withdrawn) The isolated DNA sequence encoding a polypeptide, of claim 1, wherein said polypeptide or fragment thereof comprises SEQ ID NO: 28 and has thiolase activity.

7. (Withdrawn) The isolated DNA sequence encoding a polypeptide, of claim 1, wherein said polypeptide or fragment thereof comprises SEQ ID NO: 29 and has pyruvate decarboxylase activity.

8. (Withdrawn) The isolated DNA sequence encoding a polypeptide, of claim 1, wherein said polypeptide or fragment thereof comprises SEQ ID NO: 30 and has alcohol dehydrogenate activity.

9. (Withdrawn) An isolated DNA sequence encoding a polypeptide involved in the biosynthetic pathway for aliphatic and/or aromatic ester production in fruit, said isolated DNA sequence comprising:

a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2, SEQ ID NO: 9, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 35, SEQ ID NO: 36, SEQ ID NO: 37, SEQ ID NO: 38, SEQ ID NO: 7, SEQ ID NO: 8, SEQ ID NO: 42, a nucleic acid sequence having at least 25% homology with SEQ ID NO: 1, a nucleic

acid sequence having at least 25% homology with SEQ ID NO: 2, a nucleic acid sequence having at least 70% homology with SEQ ID NO: 9, a nucleic acid sequence having at least 75 % homology to SEQ ID NO: 3, a nucleic acid sequence having at least 75 % homology with SEQ ID NO: 4, a nucleic acid sequence having at least 65% homology with SEQ ID NO: 5, an amino acid sequence having at least 55% homology with one of SEQ ID NO: 35, SEQ ID NO: 36, SEQ ID NO: 37 or SEQ ID NO: 38, a nucleic acid sequence having at least 48 % homology with SEQ ID NO: 7, a nucleic acid sequence having at least 20% homology with SEQ ID NO: 8 or SEQ ID NO: 42, SEQ ID NO: 44, a nucleic acid sequence having at least 53% homology with SEQ ID NO: 44, and a complementary nucleic acid sequence of any thereof,

said DNA sequence encoding a polypeptide or fragment thereof, involved in the biosynthetic pathway for aliphatic and/or aromatic ester production in fruit.

10. (Withdrawn) The isolated DNA sequence of claim 9, wherein said nucleic acid sequence comprises at least 40% homology with SEQ ID NO: 1, SEQ ID NO: 2, or a complementary nucleic acid sequence of either thereof.

11. (Withdrawn) The isolated DNA sequence of claim 9, wherein said nucleic acid sequence comprises at least 60% homology with SEQ ID NO: 1, SEQ ID NO: 2, or a complementary nucleic acid sequence of either thereof.

12. (Withdrawn) The isolated DNA sequence of claim 11, wherein said polypeptide or fragment thereof has alcohol acyl transferase activity.

13. (Withdrawn) The isolated DNA sequence of claim 9, wherein said amino acid sequence comprises SEQ ID NO: 9 or a fragment thereof, and said polypeptide or fragment thereof has aminotransferase activity.

14. (Withdrawn) The isolated DNA sequence of claim 9, wherein said amino acid sequence comprises SEQ ID NO: 3 or a fragment thereof, and said polypeptide or fragment thereof has thiolase activity.

15. (Withdrawn) The isolated DNA sequence of claim 9, wherein said amino acid sequence comprises SEQ ID NO: 4 or a fragment thereof, and said polypeptide or fragment thereof has pyruvate decarboxylase activity.

16. (Withdrawn) The isolated DNA sequence of claim 9, wherein said amino acid sequence is selected from the group consisting of SEQ ID NO: 5, SEQ ID NO: 35, SEQ ID NO: 36, SEQ ID NO: 37, SEQ ID NO: 38, SEQ ID NO: 7, SEQ ID NO: 8, SEQ ID NO: 42 and a fragment of any thereof, and said polypeptide or fragment thereof has alcohol dehydrogenase activity.

17. (Withdrawn) The isolated DNA sequence of claim 9, wherein said nucleic acid sequence comprises at least 65% homology with SEQ ID NO: 35, SEQ ID NO: 36, SEQ ID NO: 37 or SEQ ID NO: 38, or a complementary nucleic acid sequence of any thereof.

18. (Withdrawn) The isolated DNA sequence according to claim 9, wherein said nucleic acid sequence comprises at least 30% homology with SEQ ID NO: 8, SEQ ID NO: 42, or a complementary nucleic acid sequence of either thereof.

19. (Previously Presented) A purified and isolated polypeptide or fragment thereof, involved in the biosynthetic pathway for ester production in fruit, said purified and isolated polypeptide comprising:

an amino acid sequence selected from the group consisting of: SEQ ID NO: 6-and an amino acid sequence having at least 30% homology with SEQ ID NO: 6,  
said polypeptide or fragment thereof having alcohol acyltransferase activity.

20. (Previously Presented) The purified and isolated polypeptide or fragment thereof, of claim 19, wherein said amino acid sequence having at least 30% homology with SEQ ID NO: 6 comprises an amino acid sequence having at least 50% homology with SEQ ID NO: 6.

21. (Previously Presented) The purified and isolated polypeptide or fragment thereof, according to claim 19, wherein said amino acid sequence having at least 30% homology with SEQ ID NO: 6 comprises an amino acid sequence having at least 70% homology with SEQ ID NO: 6.

22. (Withdrawn) The isolated DNA sequence encoding a polypeptide, of claim 21, wherein said polypeptide or fragment thereof, has alcohol acyl transferase activity.

23. (Withdrawn) The isolated DNA sequence encoding a polypeptide, of claim 19, wherein said polypeptide or fragment thereof comprises SEQ ID NO: 27 and has aminotransferase activity.

24. (Withdrawn) The isolated DNA sequence encoding a polypeptide, of claim 19, wherein said polypeptide or fragment thereof comprises SEQ ID NO: 28 and has thiolase activity.

25. (Withdrawn) The isolated DNA sequence encoding a polypeptide, of claim 19, wherein said polypeptide or fragment thereof comprises SEQ ID NO: 29 and has pyruvate decarboxylase activity.

26. (Withdrawn) The isolated DNA sequence encoding a polypeptide, of claim 19, wherein said polypeptide or fragment thereof comprises SEQ ID NO: 30 and has alcohol dehydrogenase activity.

27. (Withdrawn) A recombinant expression vector comprising:

a coding sequence operably linked to a promoter sequence and capable of directing expression of said coding sequence in a host cell of said vector, said coding sequence comprising an isolated DNA sequence encoding a polypeptide or fragment thereof, involved in the biosynthetic pathway for aliphatic and/or aromatic ester production in fruit, said polypeptide comprising an amino acid sequence selected from the group consisting of SEQ ID NO: 6, SEQ ID NO: 14, SEQ ID NO: 27, SEQ ID NO: 28, SEQ ID NO: 29, SEQ ID NO: 30, an amino acid sequence having at least 30% homology with SEQ ID NO: 6, amino acid sequence having at least 40% homology with SEQ ID NO: 14, an amino acid sequence having at least 80% homology with SEQ ID NO: 27, an amino acid sequence having at least 90% homology with SEQ ID NO: 28, an amino acid sequence having at least 90% homology SEQ ID NO: 29, an amino acid sequence having at least 75% homology with SEQ ID NO: 30, and a fragment of any thereof, said polypeptide or fragment thereof, being involved in the biosynthetic pathway for aliphatic and/or aromatic ester production in fruit; and

a transcription termination sequence.

28. (Withdrawn) A replicative cloning vector comprising:

the isolated DNA sequence of encoding a polypeptide or fragment thereof, involved in the biosynthetic pathway for aliphatic and/or aromatic ester production in fruit, said polypeptide comprising an amino acid sequence selected from the group consisting of SEQ ID NO: 6, SEQ ID NO: 14, SEQ ID NO: 27, SEQ ID NO: 28, SEQ ID NO: 29, SEQ ID NO: 30, an amino acid sequence having at least 30% homology with SEQ ID NO: 6, amino acid sequence having at least 40% homology with SEQ ID NO: 14, an amino acid sequence having at least 80% homology with SEQ ID NO: 27, an amino acid sequence having at least 90% homology with SEQ ID NO: 28, an amino acid sequence having at least 90% homology SEQ ID NO: 29, an amino acid sequence having at least 75% homology with SEQ ID NO: 30, and a fragment of any thereof, said polypeptide or fragment thereof, being involved in the biosynthetic pathway for aliphatic and/or aromatic ester production in fruit; and

a replicon operative in a host cell for said vector.

29. (Withdrawn) A method for regulating aliphatic and/or aromatic ester formation in fruit, comprising inserting one or more copies of one or more isolated DNA sequences encoding a polypeptide or fragment thereof, involved in the biosynthetic pathway for aliphatic and/or aromatic ester production in fruit, said polypeptide comprising an amino acid sequence selected from the group consisting of SEQ ID NO: 6, SEQ ID NO: 14, SEQ ID NO: 27, SEQ ID NO: 28, SEQ ID NO: 29, SEQ ID NO: 30, an amino acid sequence having at least 30% homology with SEQ ID NO: 6, amino acid sequence having at least 40% homology with SEQ ID NO: 14, an amino acid sequence having at least 80% homology with SEQ ID NO: 27, an amino acid sequence having at least 90% homology with SEQ ID NO: 28, an amino acid sequence having at least 90% homology SEQ ID NO: 29, an amino acid sequence having at least 75% homology with SEQ ID NO: 30, and a fragment of any thereof, said polypeptide or fragment thereof, being involved in the biosynthetic pathway for aliphatic and/or aromatic ester production in fruit into a genome of a fruit-producing plant.

30. (Withdrawn) The method according to claim 29, wherein said plant is selected from the group consisting of strawberry, citrus, banana, apple, pear, melon, tomato, sweet pepper, peach and mango.

31. (Withdrawn) A plant and propagating material thereof comprising a genome including the vector according to claim 27.

32. (Withdrawn) A genetically modified strawberry or lemon plant and propagating material derived therefrom, comprising a genome having an expression vector for over-expression or down-regulation of an endogenous strawberry or lemon plant gene counterpart of an isolated DNA encoding a polypeptide or fragment thereof, involved in the biosynthetic pathway for aliphatic and/or aromatic ester production in fruit, said polypeptide comprising an amino acid sequence selected from the group consisting of SEQ ID NO: 6, SEQ ID NO: 14, SEQ ID NO: 27, SEQ ID NO: 28, SEQ ID NO: 29, SEQ ID NO: 30, an amino acid sequence having at least 30% homology with SEQ ID NO: 6, amino acid sequence having at least 40% homology

with SEQ ID NO: 14, an amino acid sequence having at least 80% homology with SEQ ID NO: 27, an amino acid sequence having at least 90% homology with SEQ ID NO: 28, an amino acid sequence having at least 90% homology SEQ ID NO: 29, an amino acid sequence having at least 75% homology with SEQ ID NO: 30, and a fragment of any thereof, said polypeptide or fragment thereof, being involved in the biosynthetic pathway for aliphatic and/or aromatic ester production in fruit.

33. (Withdrawn) A method of producing aromatic and/or aliphatic esters in a microorganism, plant cell, or plant, comprising:

inserting one or more copies of an isolated DNA encoding a polypeptide or fragment thereof, involved in the biosynthetic pathway for aliphatic and/or aromatic ester production in fruit, said polypeptide comprising an amino acid sequence selected from the group consisting of SEQ ID NO: 6, SEQ ID NO: 14, SEQ ID NO: 27, SEQ ID NO: 28, SEQ ID NO: 29, SEQ ID NO: 30, an amino acid sequence having at least 30% homology with SEQ ID NO: 6, amino acid sequence having at least 40% homology with SEQ ID NO: 14, an amino acid sequence having at least 80% homology with SEQ ID NO: 27, an amino acid sequence having at least 90% homology with SEQ ID NO: 28, an amino acid sequence having at least 90% homology SEQ ID NO: 29, an amino acid sequence having at least 75% homology with SEQ ID NO: 30, and a fragment of any thereof, said polypeptide or fragment thereof, being involved in the biosynthetic pathway for aliphatic and/or aromatic ester production in fruit; and

feeding an alcohol CoA and an acyl-CoA to the microorganism, plant cell or plant.

34. (Canceled).

35. (Withdrawn) An isolated DNA sequence encoding a polypeptide, or fragment thereof, said DNA sequence comprising:

an amino acid sequence selected from the group consisting of: SEQ ID NO: 31, an amino acid sequence having at least 55% homology with the amino acid sequence of a 326 aa fragment from the C terminal end of the coding sequence of SEQ ID NO: 31, SEQ ID



NO: 32, an amino acid sequence having at least 75% homology with the amino acid sequence of a 278 aa fragment from the C terminal end of the coding sequence of SEQ ID NO: 32, SEQ ID NO: 33, an amino acid sequence having at least 65% homology with the amino acid sequence of a 284 aa fragment from the C terminal end of the coding sequence of SEQ ID NO: 33, SEQ ID NO: 34, an amino acid sequence having at least 80% homology with the amino acid sequence of a 188 aa fragment from the C terminal end of the coding sequence of SEQ ID NO: 34, SEQ ID NO: 39, an amino acid sequence having at least 75% homology with the amino acid sequence of a 181 aa fragment from the 3' end of SEQ ID NO: 39, SEQ ID NO: 40, SEQ ID NO: 41, an amino acid sequence having at least 55% homology with a 176 aa fragment from the C terminal end of the coding sequence of SEQ ID NO: 40, and an amino acid sequence having at least 35% homology with a 284 aa fragment from the C terminal end of the coding sequence of SEQ ID NO: 41, SEQ ID NO: 43, an amino acid sequence having at least 41% homology with the amino acid sequence SEQ ID NO: 43 and a fragment of any thereof,

said polypeptide or fragment thereof having alcohol dehydrogenase activity and being involved in the biosynthetic pathway for aliphatic and/or aromatic ester production in fruit.

36. (Withdrawn) A method for regulating aliphatic and/or aromatic ester formation in fruit comprising inserting into the genome of a fruit-producing plant one or more copies of the DNA sequence encoding a polypeptide or fragment thereof, involved in the biosynthetic pathway for aliphatic and/or aromatic ester production in fruit, said polypeptide comprising an amino acid sequence selected from the group consisting of SEQ ID NO: 6, SEQ ID NO: 14, SEQ ID NO: 27, SEQ ID NO: 28, SEQ ID NO: 29, SEQ ID NO: 30, an amino acid sequence having at least 30% homology with SEQ ID NO: 6, amino acid sequence having at least 40% homology with SEQ ID NO: 14, an amino acid sequence having at least 80% homology with SEQ ID NO: 27, an amino acid sequence having at least 90% homology with SEQ ID NO: 28, an amino acid sequence having at least 90% homology SEQ ID NO: 29, an amino acid sequence having at least 75% homology with SEQ ID NO: 30, and a fragment of any thereof, said polypeptide or fragment thereof, being involved in the biosynthetic pathway for aliphatic and/or aromatic ester production in fruit.

37. (Withdrawn) A genetically modified strawberry or lemon plant and propagating material derived therefrom which has a genome comprising an expression vector for overexpression or downregulation of an endogenous strawberry or lemon plant gene counterpart of an isolated DNA encoding a polypeptide or fragment thereof, involved in the biosynthetic pathway for aliphatic and/or aromatic ester production in fruit, said polypeptide comprising an amino acid sequence selected from the group consisting of SEQ ID NO: 6, SEQ ID NO: 14, SEQ ID NO: 27, SEQ ID NO: 28, SEQ ID NO: 29, SEQ ID NO: 30, an amino acid sequence having at least 30% homology with SEQ ID NO: 6, amino acid sequence having at least 40% homology with SEQ ID NO: 14, an amino acid sequence having at least 80% homology with SEQ ID NO: 27, an amino acid sequence having at least 90% homology with SEQ ID NO: 28, an amino acid sequence having at least 90% homology SEQ ID NO: 29, an amino acid sequence having at least 75% homology with SEQ ID NO: 30, and a fragment of any thereof, said polypeptide or fragment thereof, being involved in the biosynthetic pathway for aliphatic and/or aromatic ester production in fruit.

38. (Withdrawn) A method for producing aromatic and/or aliphatic esters in a microorganism, plant cell or plant, comprising:  
inserting into the genome of the microorganism or plant one or more copies of an isolated DNA sequence encoding a polypeptide or fragment thereof, involved in the biosynthetic pathway for aliphatic and/or aromatic ester production in fruit, said polypeptide comprising an amino acid sequence selected from the group consisting of SEQ ID NO: 6, SEQ ID NO: 14, SEQ ID NO: 27, SEQ ID NO: 28, SEQ ID NO: 29, SEQ ID NO: 30, an amino acid sequence having at least 30% homology with SEQ ID NO: 6, amino acid sequence having at least 40% homology with SEQ ID NO: 14, an amino acid sequence having at least 80% homology with SEQ ID NO: 27, an amino acid sequence having at least 90% homology with SEQ ID NO: 28, an amino acid sequence having at least 90% homology SEQ ID NO: 29, an amino acid sequence having at least 75% homology with SEQ ID NO: 30, and a fragment of any thereof, said polypeptide or fragment thereof, being involved in the biosynthetic pathway for aliphatic and/or aromatic ester production

in fruit, and one or more copies of the DNA sequence comprising an amino acid sequence selected from the group consisting of: SEQ ID NO: 31, an amino acid sequence having at least 55% homology with the amino acid sequence of a 326 aa fragment from the C terminal end of the coding sequence of SEQ ID NO: 31, SEQ ID NO: 32, an amino acid sequence having at least 75% homology with the amino acid sequence of a 278 aa fragment from the C terminal end of the coding sequence of SEQ ID NO: 32, SEQ ID NO: 33, an amino acid sequence having at least 65% homology with the amino acid sequence of a 284 aa fragment from the C terminal end of the coding sequence of SEQ ID NO: 33, SEQ ID NO: 34, an amino acid sequence having at least 80% homology with the amino acid sequence of a 188 aa fragment from the C terminal end of the coding sequence of SEQ ID NO: 34, SEQ ID NO: 39, an amino acid sequence having at least 75% homology with the amino acid sequence of a 181 aa fragment from the 3' end of SEQ ID NO: 39, SEQ ID NO: 40, SEQ ID NO: 41, an amino acid sequence having at least 55% homology with a 176 aa fragment from the C terminal end of the coding sequence of SEQ ID NO: 40, and an amino acid sequence having at least 35% homology with a 284 aa fragment from the C terminal end of the coding sequence of SEQ ID NO: 41, and a fragment of any thereof, said polypeptide or fragment thereof having alcohol dehydrogenase activity and being involved in the biosynthetic pathway for aliphatic and/or aromatic ester production in fruit; and

feeding aldehydes and acyl-CoA to the microorganism, plant cell or plant.

39. (Withdrawn) A method for producing aromatic and/or aliphatic esters in a microorganism, plant cell or plant, comprising:

inserting into the genome of the microorganism or plant one or more copies of an isolated DNA sequences as defined in any of claims 1 to 18 sequence encoding a polypeptide or fragment thereof, involved in the biosynthetic pathway for aliphatic and/or aromatic ester production in fruit, said polypeptide comprising an amino acid sequence selected from the group consisting of SEQ ID NO: 6, SEQ ID NO: 14, SEQ ID NO: 27, SEQ ID NO: 28, SEQ ID NO: 29, SEQ ID NO: 30, an amino acid sequence having at least 30% homology with SEQ ID NO: 6, amino acid sequence having at least 40% homology with SEQ ID

NO: 14, an amino acid sequence having at least 80% homology with SEQ ID NO: 27, an amino acid sequence having at least 90% homology with SEQ ID NO: 28, an amino acid sequence having at least 90% homology with SEQ ID NO: 29, an amino acid sequence having at least 75% homology with SEQ ID NO: 30, and a fragment of any thereof, said polypeptide or fragment thereof, being involved in the biosynthetic pathway for aliphatic and/or aromatic ester production in fruit, and one or more copies of an isolated DNA sequence comprising an amino acid sequence selected from the group consisting of: SEQ ID NO: 31, an amino acid sequence having at least 55% homology with the amino acid sequence of a 326 aa fragment from the C terminal end of the coding sequence of SEQ ID NO: 32, SEQ ID NO: 33, an amino acid sequence having at least 75% homology with the amino acid sequence of a 278 aa fragment from the C terminal end of the coding sequence of SEQ ID NO: 32, SEQ ID NO: 33, an amino acid sequence having at least 65% homology with the amino acid sequence of a 284 aa fragment from the C terminal end of the coding sequence of SEQ ID NO: 33, SEQ ID NO: 34, an amino acid sequence having at least 80% homology with the amino acid sequence of a 188 aa fragment from the C terminal end of the coding sequence of SEQ ID NO: 34, SEQ ID NO: 39, an amino acid sequence having at least 75% homology with the amino acid sequence of a 181 aa fragment from the 3' end of SEQ ID NO: 39, SEQ ID NO: 40, SEQ ID NO: 41, an amino acid sequence having at least 55% homology with a 176 aa fragment from the C terminal end of the coding sequence of SEQ ID NO: 40, and an amino acid sequence having at least 35% homology with a 284 aa fragment from the C terminal end of the coding sequence of SEQ ID NO: 41, and a fragment of any thereof, said polypeptide or fragment thereof having alcohol dehydrogenase activity and being involved in the biosynthetic pathway for aliphatic and/or aromatic ester production in fruit; and feeding alpha-keto acids and acyl-CoA to the microorganism, plant cell or plant.

40. (Withdrawn) The method for producing aromatic and/or aliphatic esters in a microorganism, plant cell, or plant according to claim 43, further comprising feeding fatty acids to the microorganism, plant cell or plant.

Claims 41 and 42. (Canceled).

43. (Currently Amended) A kit for screening fruit, which is capable of producing with specific reference to volatile ester compounds comprising:

one or more purified and isolated polypeptides, or fragments thereof, involved in the biosynthetic pathway for ester production in fruit, said purified and isolated polypeptide comprising an amino acid sequence selected from the group consisting of: SEQ ID NO: 6, SEQ ID NO: 31, an amino acid sequence having at least 30% homology with SEQ ID NO: 6, an amino acid sequence having at least 55% homology with a 326 aa fragment from the C terminal end of the ~~coding~~ amino acid sequence of SEQ ID NO: 31, and a fragment of any thereof, said polypeptide or fragment thereof having alcohol acyltransferase or alcohol dehydrogenase activity and being involved in the biosynthetic pathway for ester production in fruit; ~~or~~

~~one or more isolated DNA sequences encoding a polypeptide or fragment thereof, involved in the biosynthetic pathway for ester production in fruit, said polypeptide comprising an amino acid sequence selected from the group consisting of SEQ ID NO: 6, SEQ ID NO: 31, an amino acid sequence having at least 30% homology with SEQ ID NO: 6, an amino acid sequence having at least 55% homology with a 326 aa fragment from the C terminal end of the coding sequence of SEQ ID NO: 31, and a fragment of any thereof, said polypeptide or fragment thereof, being involved in the biosynthetic pathway for ester production in fruit.~~

44. (Canceled).

45. (Previously Presented) An isolated polypeptide comprising:  
an alcohol acyltransferase comprising the amino acid sequence of SEQ ID NO: 6.

46. (Currently Amended) An isolated polypeptide comprising:  
an alcohol dehydrogenase comprising the amino acid sequence of SEQ ID NO: 31.

47. (New) A purified and isolated polypeptide, involved in the biosynthetic pathway for ester production in fruit, which has alcohol acyltransferase activity, the purified and isolated polypeptide comprising an amino acid sequence which is more than 30% homologous to SEQ ID NO: 6 and which is encoded by a DNA nucleotide sequence which is amplified in a plant extract containing cDNA by a PCR reaction with primers based on nucleotide sequences encoding amino acid sequences selected from the group consisting essentially of SEQ ID NO: 45, SEQ ID NO: 46, SEQ ID NO: 47.